Algebra I Lesson 3.4 – Solving 2-Step and Multi-Step Inequalities Mrs. Snow, Instructor

When solving for the variable you may get an inequality that will have a combination of addition/subtraction and multiplication/division. More complicated equations need to be simplified if necessary by using order of operations, combining like terms or using the Distributive Property. *Do this before you solve for the variable.*

Solve	
$7 - (2t) \le 21$	1. Isolate the term with the variable.
$-7 + 7 - 2t \le -7 + 21$	2. Using inverses clear out the constant
$-2t \le 14$	3. Using reciprocals clear out the coefficient
$\left(-\frac{1}{2}\right)(-2t) \le 14\left(-\frac{1}{2}\right)$	4. FLIP THE INEQUALITY SIGN !!!
$t \ge -7$	

Solve and graph:



The average of Juan's two test scores must be at least 90 to make an A in the class. Juan made an 87 on his first test. What grades can he make on hi second test to make an A in the class?

Marilyn got a new job at Star Furniture. She has been given an option for her monthly pay. Her first option is to receive a base salary of \$400 plus 8% commission on all her furniture sales. The second option is to get a flat monthly salary of \$1200. How much furniture would Marilyn have to sell a month to make more money on the first option?

Find the square root: $-\sqrt{49}$	Find the square root, round to the nearest 10 th :
	/22
	$\sqrt{23}$
Write an inequality:	v is a positive number
	Solve for x:
h is a nonnegative number	$3(x+2) - 6x + 6 \ge 0$